Operating Instructions for the Ultimate Outlet

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What's in the Box

- One Ultimate Outlet
- One 3 foot AC power cable
- One user's manual
- One warranty card
- One spare 1 amp fast blow fuse

IMPORTANT:
Be sure to save all packing materials included with the Ultimate Outlet as this will be required if you ever need to ship the unit for service or modification.

Overview

AC power is one of the most important and most overlooked factors in consumer audio/video and Home Theater Systems. More often than not, the quality of AC power is problematic and difficult to correct.

The Ultimate Outlet is designed to improve upon conventional duplex sockets where critical power is desired. Plug one into an AC outlet, and it will provide clean, safe, unrestricted AC power to electronic equipment.

• Available in two models: Standard and High Current

• Full surge and spike elimination for complete protection against poor power.

• Common mode noise reduction up to 40dB on the AC line

• Lowers AC line impedance

• Bi-directional AC line isolation

• Wall or ceiling mountable *

• Higher performance with both audio and video components

• Capable of passing full 15 Amp load from a 120 Volt wall outlet

• High Current model features a PS Audio Power Port™ AC duplex receptacle

• User replaceable in line fuse

• Blown fuse LED indicator

• Available with U.S. Power Port, European Schuko, or UK plug.

• Can be used with PS Audio Juice bar to increase the number of outlets.

• Can be used with PS Audio Power Plant to further enhance performance or electrical isolation

In a listening room, we recommend plugging Ultimate Outlets into existing wall sockets, thereby powering the entire A/V system. For maximum improvement big power amplifiers should each have a dedicated Ultimate Outlet to ensure they receive clean, safe, better sounding AC.

For video specific applications, we recommend mounting an Ultimate Outlet in the ceiling * or attic space above the projector to feed a ceiling-mounted video projector. The Ultimate Outlet can even be mounted on the wall next to a duplex outlet to provide power for a system.

The Ultimate Outlet can also be used to further enhance our own Power Plant AC regenerators. When used before the Power Plant the Ultimate Outlet will pre-clean the power allowing the Power Plant to produce a better signal. When used after the Power Plant the Ultimate Outlet will serve to further electrically isolate “noisy” components, such as digital audio products.

The Ultimate Outlet provides full protection from all surges and spikes which can be carried over the AC power line. Each home outlet can potentially damage connected equipment by allowing this detrimental power through the line. Traditional protection, found in many power conditioners and power strips is often less than successful because it requires a trade-off in performance.

* Requires “Ultimate Outlet wall mount kit” - sold separately

Quick Start Guide

1. Plug the Ultimate Outlet into the wall AC outlet or power distribution device (such as a Power Plant). Use the supplied cable or an aftermarket power cable. For optimum results we suggest the use of a PS Audio xStream Power cable.

2. A small click should be heard as the relay comes on-line. The Ultimate Outlet will now provide power to components which are plugged into it.

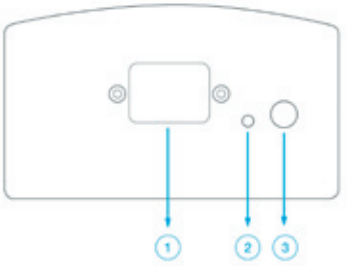
3. Plug in components or power distribution devices into the Ultimate Outlet receptacles.

4. Ensure that the blown fuse light does not illuminate.

5. Enjoy the sonic and visual benefits the Ultimate Outlet will bring to any system.

For information on how to mount the Ultimate Outlet to a wall or ceiling please refer to the instructions included with the Ultimate Outlet wall mount kit.

Rear Panel Layout



1. IEC Power Input
15 amp male IEC standard power socket

2. Blown Fuse LED
This LED will only illuminate when the protection fuse is blown. The Ultimate Outlet will not pass current to components while the LED is illuminated.

3. Fuse
The fuse is a 1 amp fast blow. It can be removed by inserting a flat device into the fuse holder and twisting couter-clockwise.

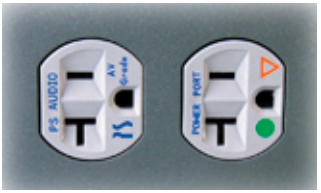
Front Panel Layout

Power Receptacle(s)
Depending on the type of Ultimate Outlet purchased, the power receptacle will either be a Spec Grade, PS Audio Power Port™, European Schuko or UK receptacle.

The Spec Grade Standard, High Current Power Port™, Schuko and UK Spec versions provide two power receptacles.

See below for images of each type of AC receptacle:

High Current with Power Port™



Standard with Spec Grade

European with Schuko

UK with British Standard

Frequently Asked Questions

Does the Ultimate Outlet replace the need for a Power Plant?

The Ultimate Outlet is great for cleaning electrical system noise and harmonics, lowering output impedance, and providing protection without limiting dynamics. But it was not designed to fix low voltage, regulate power levels, repair the typical clipped sine wave that comes out of a home outlet, or convert wall voltage to balanced power. Only a Power Plant can provide the benefits of these refinements as well as generating MultiWave™ for A/V systems.

Does the Ultimate Outlet provide isolation between equipment?

The Ultimate Outlet provides a tremendous amount of two-way isolation for your equipment, however it is important to note that any equipment plugged into the Ultimate Outlet's two outlets are not isolated from each other.

It is acceptable to place multiple components, both digital, and analog in one Ultimate Outlet. While you may place multiple analog components or multiple digital components on its output, for optimal performance do not mix digital and analog products on the same Ultimate Outlet.

Is it possible to add more receptacles to the Ultimate Outlet?

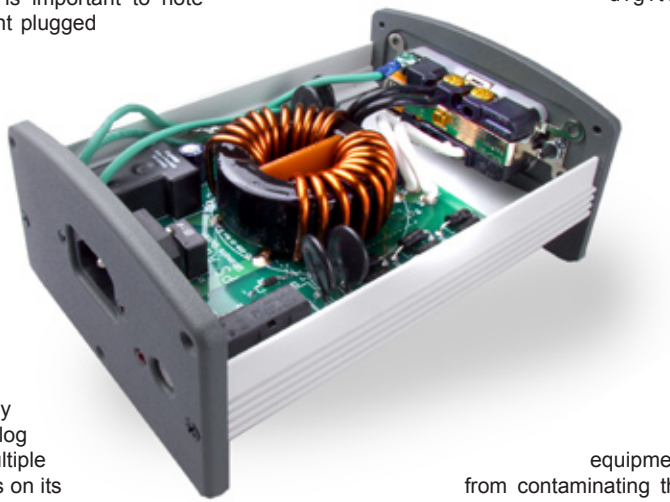
If more receptacles are necessary an extension strip can be plugged into the Ultimate Outlet. The protection and cleansing benefits of the Ultimate Outlet will be extended to the extension strip. We recommend the use of a PS Audio Juice bar. It is designed to deliver all the performance of the Ultimate Outlet to all of the outlets in the extension strip, without the restrictive surge suppression used in many standard extension strips. PS Audio Juice Bar Provides six additional outlets.

How much power can the Ultimate Outlet deliver?

The Ultimate Outlet will provide as much power as a wall socket can deliver, up to 15 amps. Most AC wall sockets in the U.S. and Canada are limited to 1800 watts (15 amps).

Can I use an Ultimate Outlet with a Power Plant AC regenerator?

The Power Plants are unmatched even by themselves, but using one in tandem with an Ultimate Outlet offers further benefits and performance improvements. For example, because the Ultimate Outlet is bi-directional, it can prevent digital equipment from contaminating the output of the Power Plant.



Ultimate Outlets can be used on both the input and the output of a Power Plant. If placed before a Power Plant, the Ultimate Outlet will pre-condition incoming AC. This allows the Power Plant to perform better as it is operating under more ideal conditions. When placed between a Power Plant's output and the connected equipment, the Ultimate Outlet is acting as an extra isolation filter and ensuring that no additional noise is being fed back into the Power Plant. Experiment with both of these setups to see what works best in your system.

Can I use an Ultimate Outlet with other power conditioners?

While it is certainly acceptable to use an Ultimate Outlet along with other power conditioners, it is not advisable to do so without careful evaluation. Our experience has been that almost all power line conditioners soften the dynamics of music and reduces snap and clarity of the video presentation. This is not always the case for every system, so if you plan on using the Ultimate Outlet in addition to an existing conditioner, take care to make a proper evaluation. Do not simply assume it will be better.

Can the Ultimate Outlet be used with balanced power?

Yes. The Ultimate Outlet can accept either single ended AC (this is what typically comes out of a standard U.S. wall socket) or balanced AC. Balanced AC can be achieved by using a PS Audio Power Plant AC regenerator, or a properly designed isolation transformer.

Should the LED on the back plate illuminate?

On the back plate is a visual indicator to display the status of the fuse. If the indicator is NOT lit, the fuse is intact and the Ultimate Outlet is functioning properly. If the indicator IS lit, replace the fuse with the spare provided in the box immediately to ensure continued protection of all connected devices.

When is it necessary to replace the fuse?

Installed in every Ultimate Outlet is a 1 amp fast blow fuse. This fuse exists to protect the surge protection circuit only and will not affect performance of the Ultimate Outlet. If there is a surge in your power line the internal tranzorber will fire and protect your downstream equipment from damage. The Ultimate Outlet also uses MOV's as a redundant form of surge protection. In the unlikely event of a major surge or spike (i.e., a lightning strike) the fuse may open to protect the tranzorber and associated surge protection devices while maintaining the safety of the connected equipment.

Should you need to replace the fuse, there are some important considerations. First make sure the power is not connected to the Ultimate Outlet. First, remove the AC plug that feeds the Ultimate Outlet its power.

Second, replace the fuse with the exact same fuse it came with. One should be included with the unit. All models use a 1 amp fast blow fuse.

Can the Ultimate Outlet be mounted to the wall or ceiling?

Yes, to obtain a mounting kit complete with the mounting plate and necessary hardware, please contact your local dealer or call PS Audio for more information.

For safety reasons and to allow access to the fuse, we do not recommend installing the Ultimate Outlet in between walls or behind drywall .

If you are evaluating the Ultimate Outlet in your home, we would ask that you do not mount it to the ceiling or the wall until you have completed your in-home evaluation and decided to keep the unit.

Specifications

Output:		
Max current output	-	15A @120V
Input:		
AC input range (depending on model)	-	90-250 V
Frequency input	-	50/60 Hz
Max consumption	-	5 Watts
General		
Dimensions (H x W x D)	-	3.5x5x7 in
Weight	-	5 lb

Warning

WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN
WARNING: To reduce the risk of electric shock do not remove cover or back.
No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

To prevent fire or shock hazard, do not expose the unit to rain or moisture. To avoid electrical shock, do not open the enclosure. Refer servicing to qualified personnel only.

To prevent electric shock, use a 3 prong, grounded type power cable.

Any change or modifications not expressly approved in the manual could void your warranty.

Safety Instructions

Read the operating instructions provided with your Ultimate Outlet.

Retain the operating instructions for later use and reference.

Unplug the Ultimate Outlet from the wall outlet before changing the fuse or performing any cleaning or service.

Do not operate the Ultimate Outlet near water. Avoid placement near a water reservoir or excessive moisture.

When replacement parts are required, be sure they are specified by the manufacturer to have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Do not operate with faulty or frayed power cables.

Warranty and Service

Inside the U.S. and Canada

PS Audio's warranty is 3 years parts and labor, from the date of original purchase. This means that we warranty the product itself regardless of ownership, new or used.

Outside the U.S. and Canada

PS Audio has authorized distribution in many countries of the world. In each country, the authorized importing retailer or distributor has accepted the responsibility for warranty of products sold by that retailer or distributor. Warranty service should normally be obtained from the importing retailer or distributor from whom you purchased the product. In the unlikely event of service required beyond the capability of the importer, PS Audio will fulfill the conditions of the warranty. Such product must be returned at the owner's expense to the PS Audio factory. Contact your PS Audio distributor or the PS Audio customer service department for more information.

Service issues

Should your unit ever require service or if you have any technical questions about the Ultimate Outlet, you must either contact your dealer (PS Audio if purchased direct) or your PS Audio distributor. No equipment will be received at our service facilities without an attached RA number.

If purchased through an authorized PS Audio dealer or distributor, the RA number must be obtained by the dealer or distributor. If the product was purchased from PS Audio direct, this can be obtained by contacting PS Audio directly.

Now that you've got it...

...get it Connected!

High quality cables can offer some of the most profound performance upgrades of any audio or video system. From the all important power connection, to the interconnects, to the speaker connections, cables provide the essential link that will allow music and film to truly come to life.

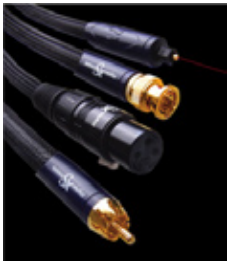
While often overlooked, cables are one of the most critical components in a system. If a cable allows external noise to enter the system, or fails to carry the signal in its original form, then the effort spent obtaining the best in performance electronics will be wasted.

P o w e r

Massive 6 ga. wire is characteristic of the flagship **Statement Power** cable. With quadruple shields and a ferrite outer jacket the Statement cable delivers unparalleled power and the means to preserve it.

The **Plus Power** and **Prelude Power** cables offers nearly all of the benefits of the Statement, instead using 8 gauge wire and triple shielding in the **Plus** and 10 gauge wire and double shielding in the **Prelude**.

D i g i t a l



Nearly every type of Digital cable connection is offered in the xStream **Digital cable** lineup. To the surprise of many the use of a high performance digital cable can make a tremendous sonic impact. Digital cables must have a flat frequency response far beyond analog cables, making their design crucial.

The **Toslink** cable uses individual glass fibers for transmission of fiber optic data. The same superb performance is also available in the popular **SPDIF** cable as well as **BNC** and **AES/EBU** digital cables.

A u d i o

The xStream **Audio** interconnect cables come in either **RCA** or **XLR** type connectors. Both lines are available in **Plus** and **Statement** models.

All versions offer a triple shielding technique which virtually eliminates all unwanted interference.

The **Statement** models provide more copper per conductor. The **XLR** version of the Statement cable is a double barreled construction which individually shields each conductor.

S p e a k e r

The xStream **Speaker cables** makes the choice of spade lug vs. banana plug easy. A full set of each end is included in the box. Just thread on the desired connector.

The three flavors of speaker cables, **Statement**, **Plus** and **Prelude,** come in 6, 8 and 10 gauge OFC wiring respectively. A **Bi-Wire** version based on the Statement cable delivers the ultimate in performance for speakers with multiple binding posts.

V i d e o

Coming Soon!

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